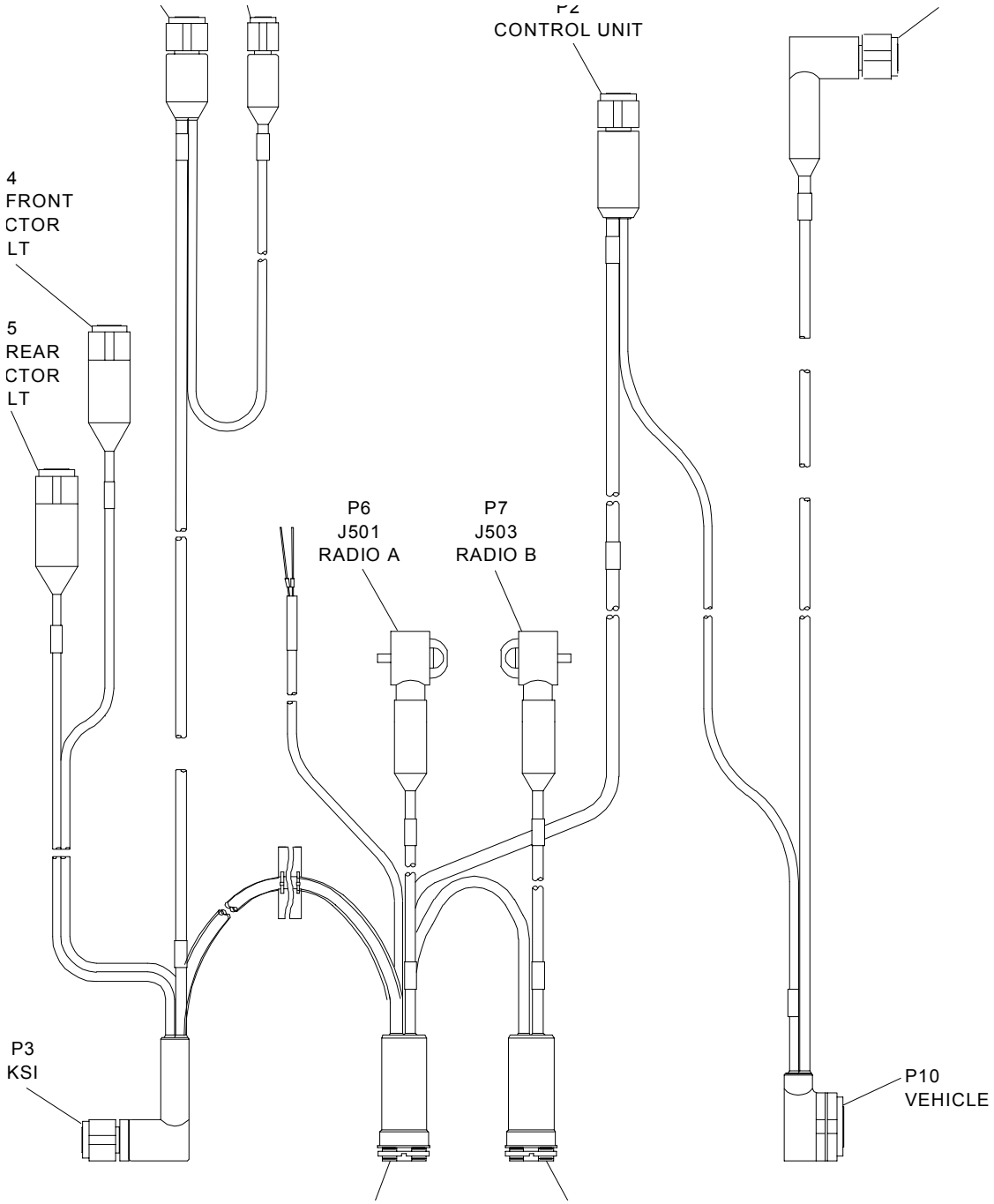

Figure 2-28. M2/M3 VIC System Cable.

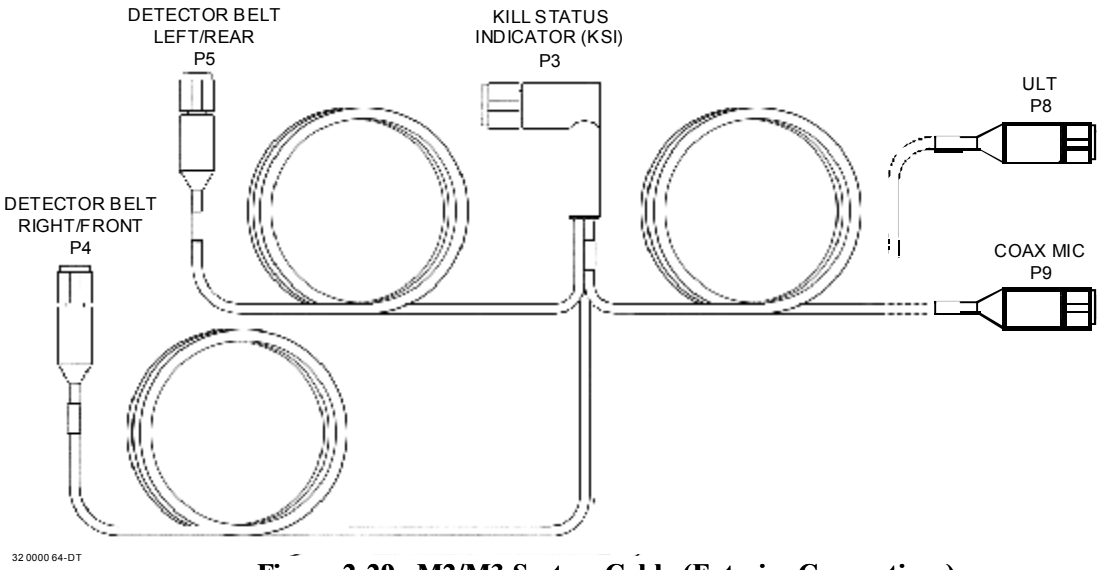

Figure 2-29. M2/M3 System Cable (Exterior Connections).

g. Route segment (P3-green sleeve) to the KSI and attach (P3) to (J1).

h. Route segment (P9-brown sleeve) to the Coax Microphone and attach (P9) to (J1).

i. Route segment (P8-blue sleeve) to the ULT and attach (P8) to (J1).

j. Route the detector belt cables to the right rear side of the turret. Connect the segment labeled **Left/Rear** (P5-gray sleeve) to (J1), and the segment labeled **Right/Front** (P4-white sleeve) to (J1).

k. Secure all cables out of the way with fastener tape tie-wraps.

2.3.2.9 Control Unit.

a. Remove the CU from the transit case and inspect for cracks or broken display window and membrane switches.

b. Inspect the connector for dirt and/or damage.

c. Replace and report damage equipment as required.

d. There should be a strip of fastener tape covering the back of the unit. If this strip is not present, apply one using the same method used to apply fastener tape to the vehicle. Refer to paragraph 2.3.2.1.2 for fastener tape preparation.

e. Attach fastener tape above the Weapons Control Box. Mount the CU to the fastener tape and ensure that it is firmly seated. (See Figure 2-30.)

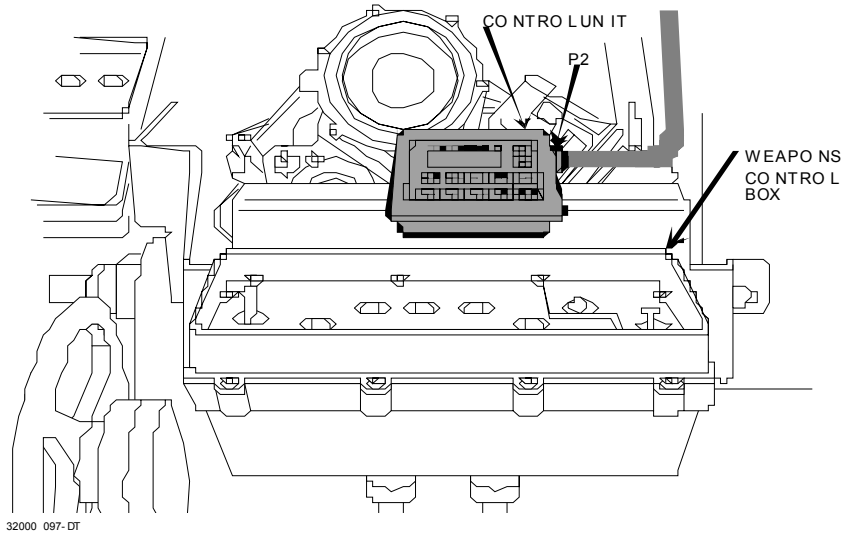

Figure 2-30. M2/M3 Control Unit.

2.3.2.10 Power Controller.

a. Remove the Power Controller from the transit case and inspect for damage.

b. Inspect connector for dirt and/or damage.

c. Replace and report damaged equipment as required.

d. There should be two (2) strips of fastener tape covering the unit. If these strips are not present, apply them using the same method used to apply fastener tape to the vehicle. Refer to paragraph 2.3.2.1.2 for fastener tape preparation.

e. Attach fastener tape to the top of the HE Ready Box. Mount the Power Controller to the fastener tape and ensure that it is firmly seated. (See Figure 2-31.)

2.3.2.11 M2/M3 Shorting Plug Installation.

a. Inspect connector assembly (Figure 2-32) for damage.

b. Remove dust cap and check plug for dirt and/or damage. (See Figure 2-32.)

c. Replace and report damaged equipment as required.

d. Depress Feeder Handle Latch (Figure 2-33) on main gun receiver.

e. Lift Feed Handle up on main gun receiver (Figure 2-34).

f. Rotate locking cap on cable 2W10 counterclockwise. Disconnect connector from electrical receptacle on main gun receiver (Figure 2-35).

g. Connect shorting plug to cable 2W10 (Figure 2-36).

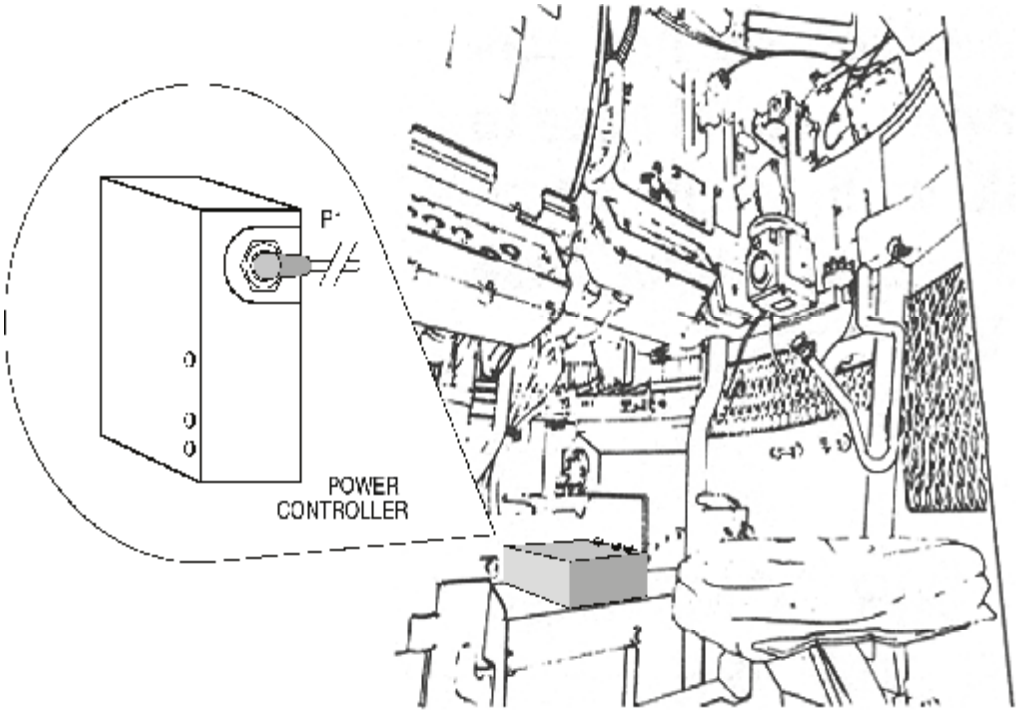

Figure 2-31. M2/M3 Power Controller.

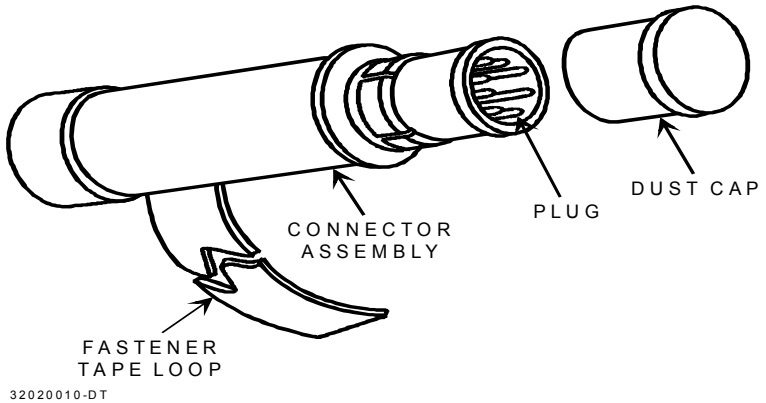

Figure 2-32. Shorting Plug Installation.

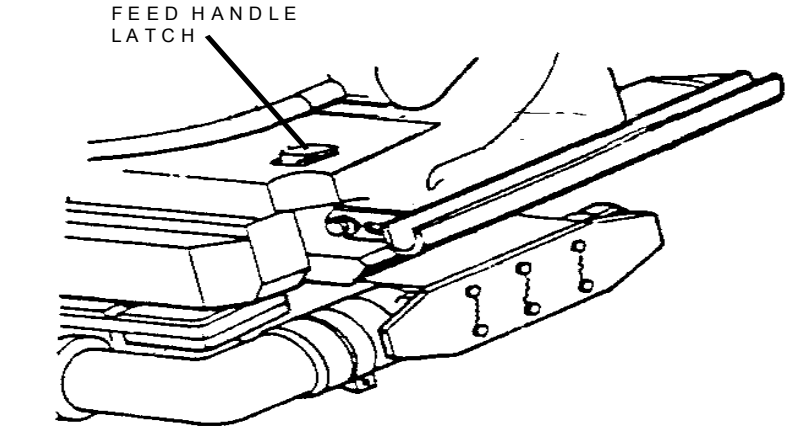

Figure 2-33. M2/M3 Feeder Handle Latch.

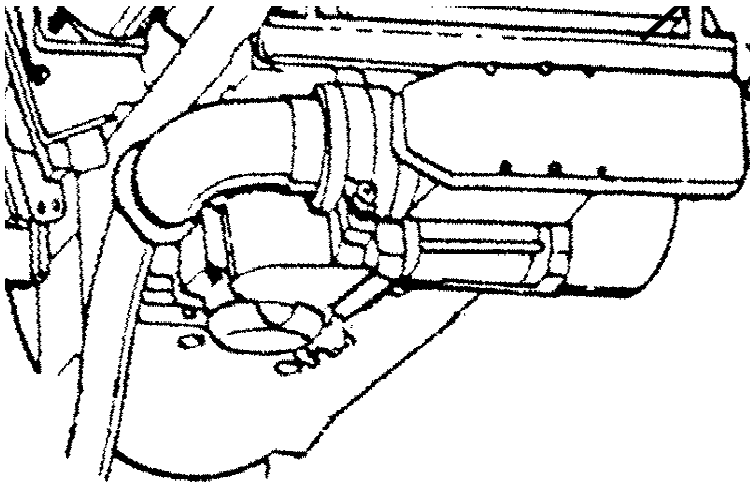

Figure 2-34. M2/M3 Main Gun Receiver Feeder Handle.

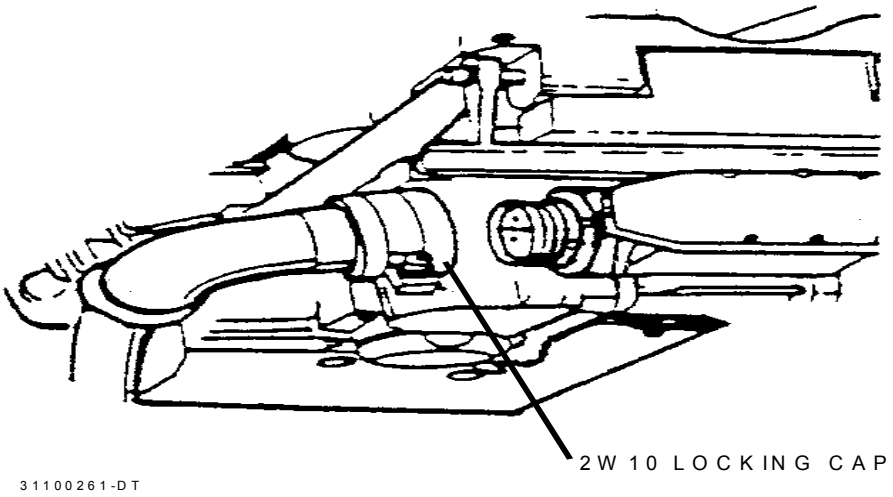

Figure 2-35. M2/M3 Main Gun Receiver 2W10 Locking Cap.

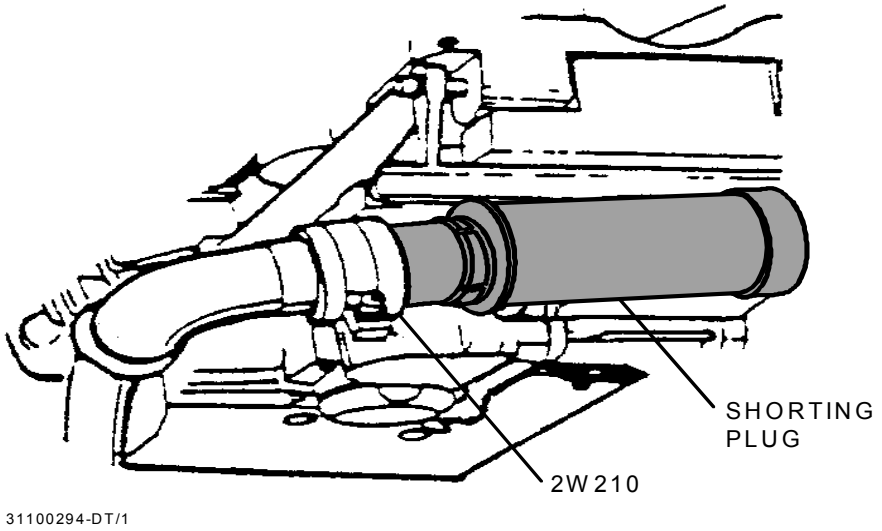

Figure 2-36. M2/M3 Main Gun Receiver 2W10 Shorting Plug Connected.

NOTE

DO NOT connect the shorting plug to the 25mm main gun receiver as it will cause errors when the MILES system is brought on line.

h. Push shorting plug into connector and twist the connector ring clockwise to make connection.

NOTE

DO NOT twist gun cable when installing or removing shorting plug.

i. Using fastener tape loop (Figure 2-32), place cable underneath gun mount and secure cable and shorting plug out of the way so that it will not interfere with, or be damaged by movement of the gun.

2.3.2.12 System Cable (Interior ONLY).

2.3.2.12.1 M2/M3 VIC ONLY System Cable. (See Figure 2-37.)

CAUTION

ENSURE POWER IS OFF PRIOR TO PERFORMING THE FOLLOWING PROCEDURES

a. Route segment (P6) and segment (J1) to the AM-1780 amplifier and connect (P6) to the J501 connector on the amplifier. Connect (J1) to the removed cable connector. (See Figure 2-38)

b. Route segment (P7) and segment (J2) to the AM-1780 amplifier and connect (P7) to the J503 connector on the amplifier. Connect (J2) to the removed cable connector . (See Figure 2-38).

c. There will be two insulated wires, stripped at the ends and tinned, attached to the System Cable near the segments connected to the amplifier. Connect the tinned part of the (-) wire to the Audio binding post on the AM-1780. Connect the tinned part of the (+) wire to the other Audio binding post on the AM-1780.

d. Remove the bolts from the cover plate of the Turret Diagnostic Test Panel and remove the cover plate to allow for easy cable routing. Hold onto the bolts for later installation. (See Figures 2-39 and 2-40.) Route segment (P10) to the test panel box and connect (P10) to (J4) of the test panel. (See Figure 2-41.)

e. Replace the cover plate with the MILES 2000 cover which is part of the kit on the test control panel and secure with the removed screws. (See Figure 2-42.)

f. Install MILES 2000 turret floor plate and bolt in place using the removed bolts.

g. Route segment (P1-violet sleeve) to the Power Controller and connect (P1) to (J1). (See Figure 2-43.)

h. Route segment (P2-red sleeve) to the CU and connect (P2) to (J1) of the CU. (See Figure 2-44)

i. Secure all cables out of the way with fastener tape tie-wraps.

2.3.2.12.2 M2/M3 VIS ONLY System Cable. (See Figure 2-45.)

CAUTION

ENSURE POWER IS OFF PRIOR TO PERFORMING THE FOLLOWING PROCEDURES

a. Route the Combined VIS System Cables through to the Master Control Station (MCS). (See Figure 2-46.)

b. Remove the J2 (Radio B) and J1 (Radio A) cables from the MCS. (See Figure 2-46)

c. Connect J1 (Radio A) cable to the J1 segment of the VIS System Cable.

d. Connect J2 (Radio B) cable to the J2 segment of the VIS System Cable.

e. Connect VIS System Cable segment P7 to J2 (Radio B) on the MCS.

f. Connect VIS System Cable segment P6 to J1 (Radio A) on the MCS.

g. There will be two insulated wires, stripped at the ends and tinned, attached to the System Cable near the segments connected to the amplifier. Connect the tinned part of the (-) wire to the (-) line binding post on the MCS. Connect the tinned part of the (+) wire to the other (+) lines binding post on the MCS.

h. Route segment (P14) and segment (J3) to the MCS power supply and connect (P14) to (J5) of the MCS power supply. Connect (J3) to the removed MCS Power Cable.

i. Remove the bolts from the cover plate of the Turret Diagnostic Test Panel and remove the cover plate to allow for easy cable routing. Hold onto the bolts for later installation. (See Figures 2-47 and 2-48.) Route segment (P10) to the test panel box and connect (P10) to (J4) of the test panel. (See Figure 2-49.)

j. Install MILES 2000 turret floor plate and bolt in place using the removed bolts.

k. Route segment (P2-red sleeve) to the CU and connect (P2) to (J1) of the CU.

l. Route segment (P1-violet sleeve) to the Power Controller and connect (P1) to (J1).

m. Secure all cables out of the way with fastener tape tie-wraps.

NOTE

Refer to TM 11-5830-263-10 for controls and indicators, and operation of the Master Control Station.

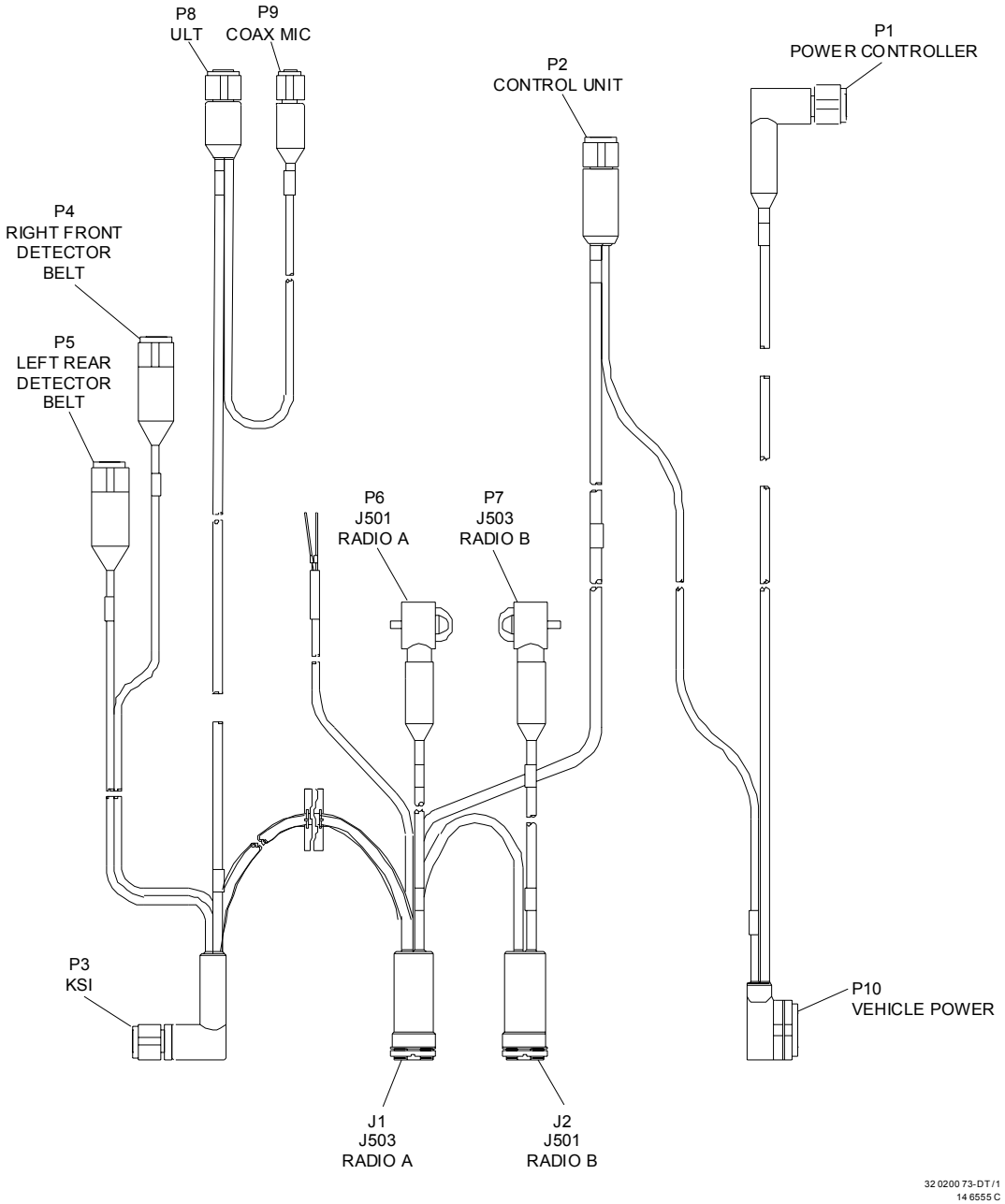

Figure 2-37. M2/M3 VIC System Cable.

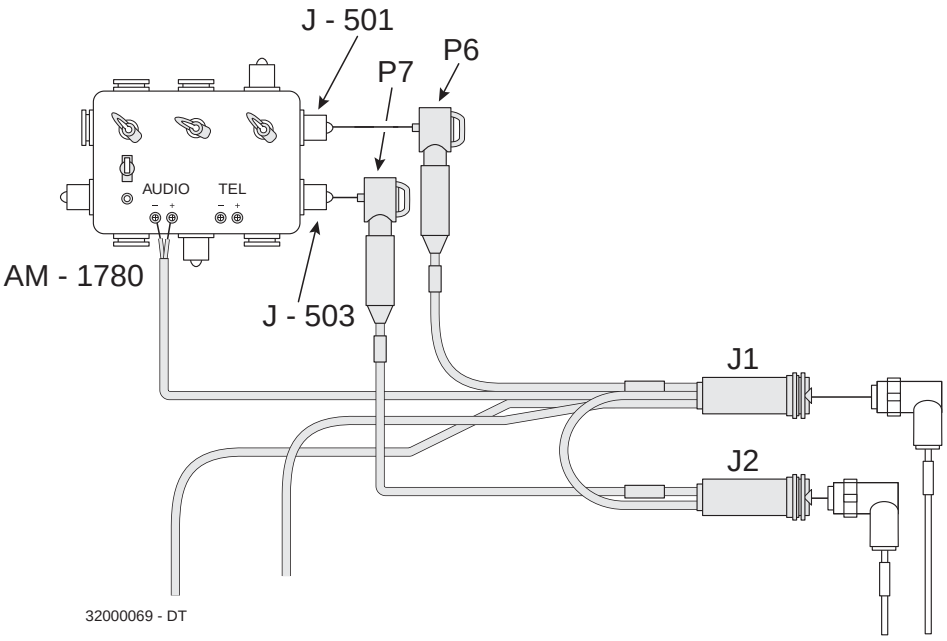

Figure 2-38. M2/M3 Combined VIC System Cable, Connections to AM-1780.

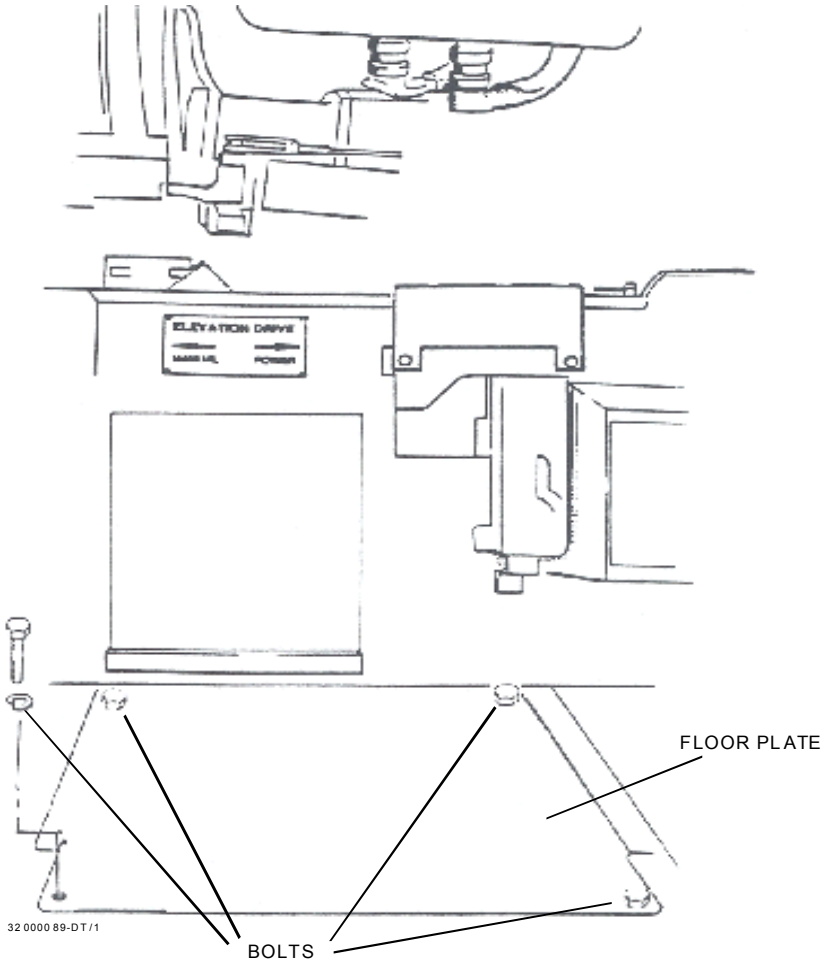

Figure 2-39. M2/M3 Turret Diagnostic Test Panel Access.